Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Division

Name of Work: Improvements to roads and drains at Sharadanagara in ward No. 04

Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Estimate Cost Rs. 100.00 Lakhs Amount
Removing & Refixing Stone Slabs of drains and Pointing in C.M(1:3). (Page No 25., I.No.5.33 of KPWD S.R 2016-17)								
Basic rate	76.00							
11% AD-HOC	8.36							
Sub Total-1	84.36							
6% AW	5.06							
Sub Total-2	89.42							
Top slab								
2nd main	2	335.00	1.00		670.00			
1st main	2	205.00	1.00		410.00			
7th cross	2	352.00	1.00		704.00			
cross road -1	2	40.00	1.00		80.00			
cross road -2	2	36.00	1.00		72.00			
cross road -3	2	32.00	1.00		64.00			
cross road -4	2	26.00	1.00		52.00			
3rd cross	2	242.00	1.00		484.00			
cross road -5	2	19.00	1.00		38.00			
3rd cross, Sharada nagar	2	25.00	1.00		50.00			
1st main	2	130.00	1.00		260.00			
3rd cross, left side	2	77.00	1.00		154.00			
3rd main (TIFR)	2	106.00	1.00		212.00			
Shivanilaya house road	2	38.00	1.00		76.00			
cross road -6	2	140.00	1.00		280.00			
cross road -7	2	56.00	1.00		112.00			
cross road -8	2	50.00	1.00		100.00			
cross road -9	2	50.00	1.00		100.00			
cross road -10	2	76.00	1.00		152.00			
Drain slab								
2nd main	2	335.00	1.65		1105.50			
1st main	2	205.00	1.65		676.50			
7th cross	2	352.00	1.65		1161.60			
cross road -1	2	40.00	1.65		132.00			
cross road -2	2	36.00	1.65		118.80			
cross road -3	2	32.00	1.65		105.60			
cross road -4	2	26.00	1.65		85.80			
3rd cross	2	242.00	1.65		798.60			
cross road -5	2	19.00	1.65		62.70			
3rd cross, Sharada nagar	2	25.00	1.65		82.50			
1st main	2	130.00	1.65		429.00			
3rd cross, left side	2	77.00	1.65		254.10			
3rd main (TIFR)	2	106.00	1.65		349.80			
Shivanilaya house road	2	38.00	1.65		125.40			
cross road -6	2	140.00	1.65		462.00			
cross road -7	2	56.00	1.65		184.80			

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
cross road -8	2	50.00	1.65		165.00			
cross road -9	2	50.00	1.65		165.00			
cross road -10	2	76.00	1.65		250.80			
Total Qty					10785.50			
Consider 30% of total Qty					3235.65			
					3235.65	Sqm	89.42	289337.00
Providing precast slab of 100 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-Data rate								
Basic rate	2100.00							
10% of Total qty of Item no -1 of precast slab					257.40			
					257.40	Sqm	2100.00	540540.00
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. 7.5cm thick (Page No 25., I.No.5.31.1 of KPWD S.R 2016-17).								
Basic rate	628.00							
11% AD-HOC	69.08							
Sub Total-1	697.08							
6% AW	41.82							
Sub Total-2	738.90							
Consider 10% of Total qty of Item no -1					1078.55			
					1078.55	Sqm	738.90	796945.77
KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (Page No142., I.No.19.1 of KPWD S.R 2016-17).								
Basic rate	82.00							
11% AD-HOC	9.02							
Sub Total-1	91.02							
6% AW	5.46							
Sub Total-2	96.48							
10km ld & lt, transport	100.00							
Sub Total-3	196.48							
2nd main	2	335.00	0.50	0.45	150.75			
1st main	2	205.00	0.50	0.45	92.25			
7th cross	2	352.00	0.50	0.45	158.40			
cross road -1	2	40.00	0.50	0.45	18.00			
cross road -2	2	36.00	0.50	0.45	16.20			
cross road -3	2	32.00	0.50	0.45	14.40			
cross road -4	2	26.00	0.50	0.45	11.70			
3rd cross	2	242.00	0.50	0.45	108.90			
cross road -5	2	19.00	0.50	0.45	8.55			
3rd cross, Sharada nagar	2	25.00	0.50	0.45	11.25			
1st main	2	130.00	0.50	0.45	58.50			
3rd cross, left side	2	77.00	0.50	0.45	34.65			
3rd main (TIFR)	2	106.00	0.50	0.45	47.70			
Shivanilaya house road	2	38.00	0.50	0.45	17.10			
cross road -6	2	140.00	0.50	0.45	63.00			

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
cross road -7	2	56.00	0.50	0.45	25.20			
cross road -8	2	50.00	0.50	0.45	22.50			
cross road -9	2	50.00	0.50	0.45	22.50			
cross road -10	2	76.00	0.50	0.45	34.20			
UGD Cut portion								
2nd main	1	335.00	1.00	0.40	134.00			
1st main	1	205.00	1.00	0.40	82.00			
7th cross	1	352.00	1.00	0.40	140.80			
cross road -1	1	40.00	1.00	0.40	16.00			
cross road -2	1	36.00	1.00	0.40	14.40			
cross road -3	1	32.00	1.00	0.40	12.80			
cross road -4	1	26.00	1.00	0.40	10.40			
3rd cross	1	242.00	1.00	0.40	96.80			
cross road -5	1	19.00	1.00	0.40	7.60			
3rd cross, Sharada nagar	1	25.00	1.00	0.40	10.00			
1st main	1	130.00	1.00	0.40	52.00			
3rd cross, left side	1	77.00	1.00	0.40	30.80			
3rd main (TIFR)	1	106.00	1.00	0.40	42.40			
Shivanilaya house road	1	38.00	1.00	0.40	15.20			
cross road -6	1	140.00	1.00	0.40	56.00			
cross road -7	1	56.00	1.00	0.40	22.40			
cross road -8	1	50.00	1.00	0.40	20.00			
cross road -9	1	50.00	1.00	0.40	20.00			
cross road -10	1	76.00	1.00	0.40	30.40			
culvert	3	8.00	1.50	1.20	43.20			
					1772.95	**Cum**	**196.48**	**348351.34**
KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892cum and fine aggregates @ 0.465cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.Specification No.KBS 4.1, 4.2 (P.12/I.4.2)/ PWD SR 2016-17								
Basic rate	5046.00							
11% AD-HOC	555.06							
Sub Total-1	5601.06							
6% AW	336.06							
Sub Total-2	5937.12							
culvert	3	8.00	1.50	0.15	5.40			
					5.40	**Cum**	**5937.12**	**32,060.47**
KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (P.23/I.5.9)/ PWD SR 2016-17								
Basic rate	5005.00							
11% AD-HOC	550.55							
Sub Total-1	5555.55							
6% AW	333.33							
Sub Total-2	5888.88							
culvert	6	8.00	0.45	0.70	15.12			
					15.12	**Cum**	**5888.88**	**89,039.91**

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Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
KSRB - 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates at 0.78cum and fine aggregates at 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms.thick, well compacted, in foundation, plinth and cills including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. (P.No.12, I.No.4.6 of PW, P&IWTD SR 2016-17)								
Basic rate	5441.00							
11% AD-HOC	598.51							
Sub Total-1	6039.51							
6% AW	362.37							
Sub Total-2	6401.88							
culvert	6	8.00	0.45	0.10	2.16			
					2.16	**Cum**	**6401.88**	**13,828.06**
Providing precast slab of 250 mm thick including cost of all materials, labour, curing,transportation,loading ,unloading,etc.,complete as per the direction of engineer in charge-(Data rate)								
Basic rate	5111.00							
	3	8.00	1.50		36.00			
					36.00	**Sqm**	**5111.00**	**183996.00**
KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, crushed stone aggregates of granite/trap/basalt material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method.Close graded granular sub-base material as per 400-1 For Grading- II Material (Page No 155., I.No.20.4.2 of KPWD S.R 2016-17).								
Basic rate	1571.00							
11% AD-HOC	172.81							
Sub Total-1	1743.81							
6% AW	104.63							
Sub Total-2	1848.44							
UGD Cut portion								
2nd main	1	335.00	1.00	0.15	50.25			
1st main	1	205.00	1.00	0.15	30.75			
7th cross	1	352.00	1.00	0.15	52.80			
cross road -1	1	40.00	1.00	0.15	6.00			
cross road -2	1	36.00	1.00	0.15	5.40			
cross road -3	1	32.00	1.00	0.15	4.80			
cross road -4	1	26.00	1.00	0.15	3.90			
3rd cross	1	242.00	1.00	0.15	36.30			
cross road -5	1	19.00	1.00	0.15	2.85			
3rd cross, Sharada nagar	1	25.00	1.00	0.15	3.75			
1st main	1	130.00	1.00	0.15	19.50			
3rd cross, left side	1	77.00	1.00	0.15	11.55			
3rd main (TIFR)	1	106.00	1.00	0.15	15.90			
Shivanilaya house road	1	38.00	1.00	0.15	5.70			
cross road -6	1	140.00	1.00	0.15	21.00			
cross road -7	1	56.00	1.00	0.15	8.40			
cross road -8	1	50.00	1.00	0.15	7.50			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road -9	1	50.00	1.00	0.15	7.50			
	cross road -10	1	76.00	1.00	0.15	11.40			
						305.25	**Cum**	**1848.44**	**564235.88**
	KSRRB M400- Wet Mix Macadam - KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No. 406 (P.No.158 I.No.20.18)								
	Basic rate	1668.00							
	11% AD-HOC	183.48							
	Sub Total-1	1851.48							
	6% AW	111.09							
	Sub Total-2	1962.57							
	UGD Cut portion								
	2nd main	1	335.00	1.00	0.225	75.38			
	1st main	1	205.00	1.00	0.225	46.13			
	7th cross	1	352.00	1.00	0.225	79.20			
	cross road -1	1	40.00	1.00	0.225	9.00			
	cross road -2	1	36.00	1.00	0.225	8.10			
	cross road -3	1	32.00	1.00	0.225	7.20			
	cross road -4	1	26.00	1.00	0.225	5.85			
	3rd cross	1	242.00	1.00	0.225	54.45			
	cross road -5	1	19.00	1.00	0.225	4.28			
	3rd cross, Sharada nagar	1	25.00	1.00	0.225	5.63			
	1st main	1	130.00	1.00	0.225	29.25			
	3rd cross, left side	1	77.00	1.00	0.225	17.33			
	3rd main (TIFR)	1	106.00	1.00	0.225	23.85			
	Shivanilaya house road	1	38.00	1.00	0.225	8.55			
	cross road -6	1	140.00	1.00	0.225	31.50			
	cross road -7	1	56.00	1.00	0.225	12.60			
	cross road -8	1	50.00	1.00	0.225	11.25			
	cross road -9	1	50.00	1.00	0.225	11.25			
	cross road -10	1	76.00	1.00	0.225	17.10			
						457.88	**Cum**	**1962.57**	**898611.19**
1	Providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WMM including clearing of road surface and spraying primer at the rate of 0.60 kg/sqm using mechanical means complete as per specifications. MORTH Specification No.502 (P.No.160/It No.21.6)								
	Basic rate	26.00							
	11% AD-HOC	2.86							
	Sub Total-1	28.86							
	6% AW	1.73							
	Sub Total-2	30.59							
	UGD Cut portion								
	2nd main	1	335.00	1.00		335.00			
	1st main	1	205.00	1.00		205.00			
	7th cross	1	352.00	1.00		352.00			
	cross road -1	1	40.00	1.00		40.00			
	cross road -2	1	36.00	1.00		36.00			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road -3	1	32.00	1.00		32.00			
	cross road -4	1	26.00	1.00		26.00			
	3rd cross	1	242.00	1.00		242.00			
	cross road -5	1	19.00	1.00		19.00			
	3rd cross, Sharada nagar	1	25.00	1.00		25.00			
	1st main	1	130.00	1.00		130.00			
	3rd cross, left side	1	77.00	1.00		77.00			
	3rd main (TIFR)	1	106.00	1.00		106.00			
	Shivanilaya house road	1	38.00	1.00		38.00			
	cross road -6	1	140.00	1.00		140.00			
	cross road -7	1	56.00	1.00		56.00			
	cross road -8	1	50.00	1.00		50.00			
	cross road -9	1	50.00	1.00		50.00			
	cross road -10	1	76.00	1.00		76.00			
	Profile correction								
	2nd main	1	335.00	2.10		703.50			
	1st main	1	205.00	2.10		430.50			
	7th cross	1	352.00	1.50		528.00			
2	KSRRB M500- 15. Providing, laying dense graded bituminous macadam using 40/60 TPH capacity H.M.P with Mechanical paver Gr-II (50mm to 75mm), crushed aggregates of specified grading premixed with 4.5% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications MORTH Specification No.507 (P.No.162&163 It.No.21.17.6)					3697.00	Sqm	30.59	113097.15
	Basic rate	6717.00							
	11% AD-HOC	738.87							
	Sub Total-1	7455.87							
	6% AW	447.35							
	Sub Total-2	7903.22							
	UGD Cut portion								
	2nd main	1	335.00	1.00	0.05	16.75			
	1st main	1	205.00	1.00	0.05	10.25			
	7th cross	1	352.00	1.00	0.05	17.60			
	cross road -1	1	40.00	1.00	0.05	2.00			
	cross road -2	1	36.00	1.00	0.05	1.80			
	cross road -3	1	32.00	1.00	0.05	1.60			
	cross road -4	1	26.00	1.00	0.05	1.30			
	3rd cross	1	242.00	1.00	0.05	12.10			
	cross road -5	1	19.00	1.00	0.05	0.95			
	3rd cross, Sharada nagar	1	25.00	1.00	0.05	1.25			
	1st main	1	130.00	1.00	0.05	6.50			
	3rd cross, left side	1	77.00	1.00	0.05	3.85			
	3rd main (TIFR)	1	106.00	1.00	0.05	5.30			
	Shivanilaya house road	1	38.00	1.00	0.05	1.90			
	cross road -6	1	140.00	1.00	0.05	7.00			
	cross road -7	1	56.00	1.00	0.05	2.80			
	cross road -8	1	50.00	1.00	0.05	2.50			
	cross road -9	1	50.00	1.00	0.05	2.50			

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	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road -10	1	76.00	1.00	0.05	3.80			
	Profile correction								
	2nd main	1	335.00	2.10	0.05	35.18			
	1st main	1	205.00	2.10	0.05	21.53			
	7th cross	1	352.00	1.50	0.05	26.40			
						184.85	**Cum**	**7903.22**	**1460910.62**
3	KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501. (P.No.161 & I.No.21.2)								
	Basic rate	3.00							
	11% AD-HOC	0.33							
	Sub Total-1	3.33							
	6% AW	0.20							
	Sub Total-2	3.53							
	2nd main	1	335.00	5.80		1943.00			
	1st main	1	205.00	5.70		1168.50			
	7th cross	1	352.00	5.60		1971.20			
	cross road -1	1	40.00	5.50		220.00			
	cross road -2	1	36.00	6.00		216.00			
	cross road -3	1	32.00	5.60		179.20			
	cross road -4	1	26.00	5.60		145.60			
	3rd cross	1	242.00	5.80		1403.60			
	cross road -5	1	19.00	6.10		115.90			
	3rd cross, Sharada nagar	1	25.00	5.10		127.50			
	1st main	1	130.00	4.40		572.00			
	3rd cross, left side	1	77.00	4.60		354.20			
	3rd main (TIFR)	1	106.00	4.10		434.60			
	Shivanilaya house road	1	38.00	3.70		140.60			
	cross road -6	1	140.00	4.50		630.00			
	cross road -7	1	56.00	4.50		252.00			
	cross road -8	1	50.00	4.60		230.00			
	cross road -9	1	50.00	4.80		240.00			
	cross road -10	1	76.00	4.70		357.20			
						10701.10	**Sqm**	**3.53**	**37,772.74**
14	KSRRB 500-7:Providing and applying tack coat with bitumen emulsion using 80/100 grade bitumen (VG20) on the prepared black toped suface at 2.5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all materials, labour, HOM of Machineries complete as per Specifications.(P.No.160 & I.No.21.7)								
	Basic rate	11.00							
	11% AD-HOC	1.21							
	Sub Total-1	12.21							
	6% AW	0.73							
	Sub Total-2	12.94							
	2nd main	1	335.00	5.80		1943.00			
	1st main	1	205.00	5.70		1168.50			
	7th cross	1	352.00	5.60		1971.20			
	cross road -1	1	40.00	5.50		220.00			
	cross road -2	1	36.00	6.00		216.00			
	cross road -3	1	32.00	5.60		179.20			

	Description of Items	No	Length	Width	Depth	Quantity	Unit	Rate	Amount
	cross road -4	1	26.00	5.60		145.60			
	3rd cross	1	242.00	5.80		1403.60			
	cross road -5	1	19.00	6.10		115.90			
	3rd cross, Sharada nagar	1	25.00	5.10		127.50			
	1st main	1	130.00	4.40		572.00			
	3rd cross, left side	1	77.00	4.60		354.20			
	3rd main (TIFR)	1	106.00	4.10		434.60			
	Shivanilaya house road	1	38.00	3.70		140.60			
	cross road -6	1	140.00	4.50		630.00			
	cross road -7	1	56.00	4.50		252.00			
	cross road -8	1	50.00	4.60		230.00			
	cross road -9	1	50.00	4.80		240.00			
	cross road -10	1	76.00	4.70		357.20			
						10701.10	**Sqm**	**12.94**	**138500.06**
5	KSRRB M500- 15. Providing, laying bituminous Concrete using 40/60 THP capacity H.M.P with Mechanical paver Gr-II (30mm to 45mm), crushed aggregates of specified grading premixed with 5.4% VG 30 grade bituminous binder and , transporting the hot mix to work site , laying to the required level and grade,rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH Specification clause No.500.9 complete in all respects complete as per specifications MORTH Specification No.509 (P.No.164 Item No.21.22.6)								
	Basic rate	7659.00							
	11% AD-HOC	842.49							
	Sub Total-1	8501.49							
	6% AW	510.09							
	Sub Total-2	9011.58							
	2nd main	1	335.00	5.80	0.04	77.72			
	1st main	1	205.00	5.70	0.04	46.74			
	7th cross	1	352.00	5.60	0.04	78.85			
	cross road -1	1	40.00	5.50	0.04	8.80			
	cross road -2	1	36.00	6.00	0.04	8.64			
	cross road -3	1	32.00	5.60	0.04	7.17			
	cross road -4	1	26.00	5.60	0.04	5.82			
	3rd cross	1	242.00	5.80	0.04	56.14			
	cross road -5	1	19.00	6.10	0.04	4.64			
	3rd cross, Sharada nagar	1	25.00	5.10	0.04	5.10			
	1st main	1	130.00	4.40	0.04	22.88			
	3rd cross, left side	1	77.00	4.60	0.04	14.17			
	3rd main (TIFR)	1	106.00	4.10	0.04	17.38			
	Shivanilaya house road	1	38.00	3.70	0.04	5.62			
	cross road -6	1	140.00	4.50	0.04	25.20			
	cross road -7	1	56.00	4.50	0.04	10.08			
	cross road -8	1	50.00	4.60	0.04	9.20			
	cross road -9	1	50.00	4.80	0.04	9.60			
	cross road -10	1	76.00	4.70	0.04	14.29			
						428.04	**Cum**	**9011.58**	**3857352.49**